

File No.:CQC02001001955



#### Features

- 30A switching capabilities
- 2.5KV dielectric coil to contacts
- Heavy load up to 7,200VA
- Class B, Class F insulation available

CONTACT	DATA				
Contact Arrangement	1A	1B	1C (NO)	1C (NC)	
Initial Contact Resistance	50mΩ (at 1A 24VDC)				
Contact Material		AgSnO <sub>2</sub> , AgCdO			
Max. Switching Capacity	7200VA/560W	3600VA/280W	4800VA/560W	2400VA/280W	
Max. Switching Voltage	277VAC/28VDC				
Max. Switching Current	30A	15A	20A	10A	
JQX-105F-4 Rating	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC	
	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC	
JQX-105F-4L Rating	25A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC	
	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC	
Mechanical life				1 x 10 <sup>7</sup> ops	
Flectrical life				1 x 10⁵ ops	

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Max. Switching Voltage			277\	/AC/28VDC
Max. Switching Current	30A	15A	20A	10A
JQX-105F-4	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC
Rating	20A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC
JQX-105F-4L	25A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC
Rating	20A 28VDC	10A 28VDC	20A 28V/DC	10A 28V/DC

CHARACTERISTICS						
Initial Insulation Resistance			1000MΩ, 500VDC			
Dielectric Between coil and cont		and contacts	2500VAC 1min.			
Strength	Between ope	n contacts	1500VAC 1min.			
Operate time (at nomi. Volt.)			Max. 15ms			
Release t	ime (at nomi. '	Volt.)	Max. 10ms			
Ambient temperature		Class B	DC:-55°C to +85°C AC:-55°C to +60°C			
		Class F	DC:-55°C to +105°C AC:-55°C to +85°C			
Shock Resistance		Functional	98 m/s <sup>2</sup>			
		Destructive	980 m/s <sup>2</sup>			
Vibration Resistance			DA: 1.5mm, 10 to 55Hz			
Humidity			98%, +40°C			
Termination			PCB & QC			
Unit weight			Approx. 36g			
Construction			Sealed IP67 & Dust Cover			

COIL	
Coil power	DC:0.9W AC:2VA
Coil Voltage	5 to 110VDC ,12 to 277VAC
Coil Resistance	See table below

SAFETY APPROVAL RATINGS					
		30A 277VAC			
1 Form A		30A 28VDC			
		2HP 250VAC			
		1HP 125VAC			
		277VAC(FLA=20)(LRA=60)			
		15A 277VAC			
		10A 28VDC			
1 Form B	(NC)	1/2HP 250VAC			
		1/4HP 125VAC			
		277VAC(FLA=10)(LRA=33)			
	NO	30A 277VAC			
1 Form C		20A 277VAC			
		10A 28VDC			
		2HP,250VAC 1HP,125VAC			
		, '			
		277VAC(FLA=20)(LRA=60) 20A 277VAC			
	NC	10A 277VAC			
		10A 28VDC			
		1/2HP 250VAC			
		1/4HP 125VAC			
		277VAC(FLA=10)(LRA=33)			
	1 Form B	1 Form B (NC)  NO 1 Form C			

VERSION: EN02-20040601

# **COIL DATA**

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC(at 25°C)	Coil Resistance Ω
5	3.75	0.5	6.5	27 ± 10%
6	4.50	0.6	7.8	40 ± 10%
9	6.75	0.9	11.7	97 ± 10%
12	9.00	1.2	15.6	155 ± 10%
15	11.25	1.5	19.5	256 ± 10%
18	13.50	1.8	23.4	380 ± 10%
24	18.00	2.4	31.2	660 ± 10%
48	36.00	4.8	62.4	2560 ± 10%
70	52.50	7.0	91	5500 ± 10%
110	82.50	11	143	13450 ± 10%

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. allowable Voltage VDC(at 25°C)	Coil Resistance Ω
12	9.6	2.4	15.6	25 ± 10%
24	19.2	4.8	31.2	100 ± 10%
120	96.0	24.0	156	2500 ± 10%
208	166.4	41	270.4	11000 ± 10%
220/240	192	48	286/312	13490 ± 10%
277	220	54	360.1	15000 ± 10%

Note:When require pick-up voltage < 80% of nominal voltage, special order allowed.

### **ORDERING INFORMATION**

JQX-105F-4 / 018 D K 1H

**Type** JQX-105F-4: 30A JQX-105-4L: 25A

Coil voltage DC: 5 to 110VDC AC: 12 to 277VAC

Coil Input D: DC A: AC

Coil terminal width K: 4.8mm Nil: 2.8mm

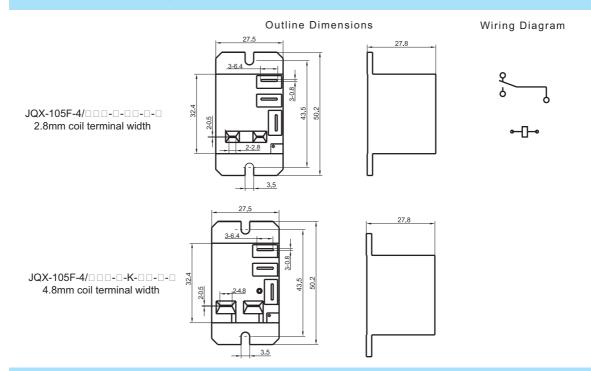
Contact arrangement 1H:1A(SPST-NO) 1D:1B(SPST-NC) 1Z:1C(SPDT)

Structure S: Sealed IP67 Nil: Dust Cover

Contact Material T: AgSnO<sub>2</sub> Nil: AgCdO

Insulation Standard F: Class F Nil: Class B

## **OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT**



### **CHARACTERISTICS CURVE**

